

PCS2309 – APP DEVELOPMENT

Experiment No.: 6

Date: / /2025

Title: Design and develop an android application using Apache Cordova to find and display the current location of the user.

Objective:

To create a Android application using Apache Cordova that finds and displays the current location of user.

Software/Hardware Requirements:

Node.js & NPM Core dependency for Cordova CLI All platforms

Cordova CLI Create and manage Cordova projects All platforms

Java JDK (8 or 11) Required for Android builds Android

Android Studio Android SDK, Emulator, Debugging Android

Text Editor

cordova-plugin-geolocation To access geolocation

Theory / Concept Overview:

The app uses the device's GPS hardware through Apache Cordova's Geolocation API to fetch the current location.

It then displays the latitude and longitude (or shows a map) using HTML5 and JavaScript inside a hybrid mobile app.

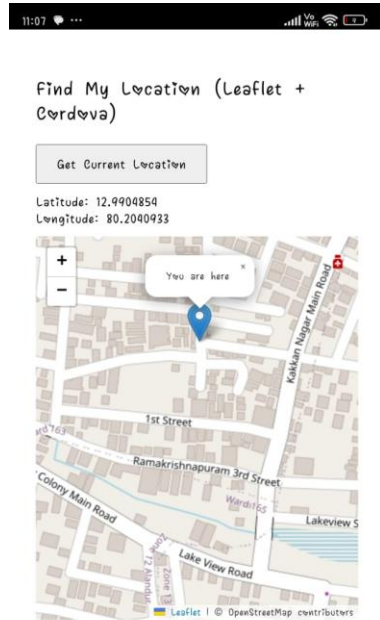
Problem Statement:

To determine the real-time location of the user.

Algorithm / Logic:

1. **Start the app**
2. **Request permission** from the user to access location.
3. **Use Cordova's Geolocation plugin** to get the current position:
 - Call navigator.geolocation.getCurrentPosition()
4. **If successful:**
 - Extract latitude and longitude from the response
 - Display coordinates as text OR

- Pass coordinates to a map (e.g., Google Maps) to show the location
- 5. If there is an error** (e.g., permission denied or GPS off):
- Show an appropriate error message to the user



Result:

The application to display the live location of user is created.

Viva Questions:

1. What is Apache Cordova?
2. Which Cordova plugin is used to access the device's GPS?
3. What method is used to get the current position in Cordova?
4. How does navigator.geolocation.getCurrentPosition() work?

Grade / Marks: _____

Signature: _____